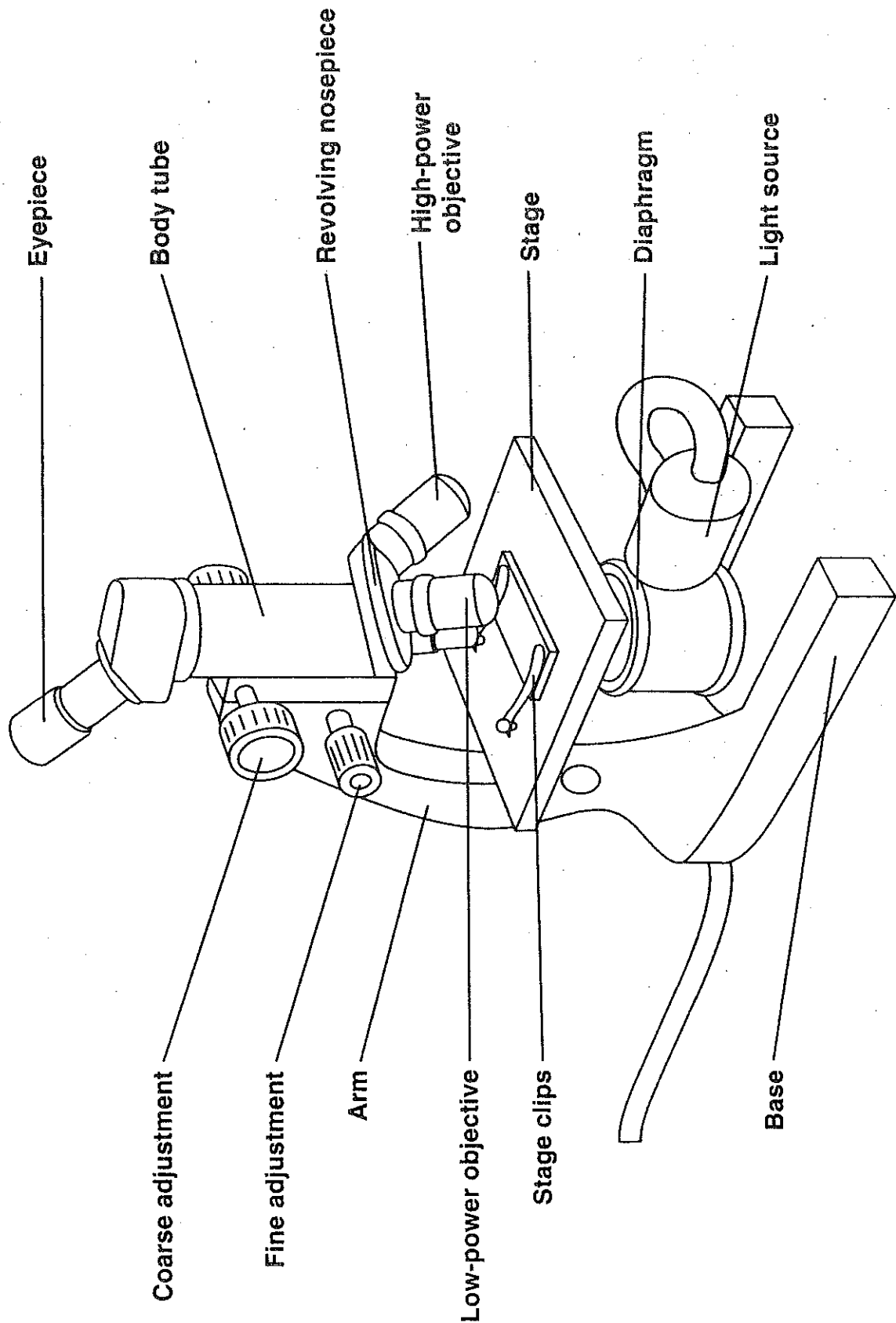


TRANSPARENCY**15****THE OPTICAL MICROSCOPE**

TRANSPARENCY 15 THE OPTICAL MICROSCOPE**USE WITH CHAPTER 8, SECTION 8.1**

1. What is the function of the diaphragm? _____

2. If you want to change the objective lens through which you are viewing a specimen, what must you do? _____

3. What knob is turned to focus an image under low power? _____

4. What is the purpose of having a light source on a microscope? _____

5. Explain the significance of the term *compound* in describing a modern light microscope. _____

6. Identify the parts of the microscope that are used for supporting the specimen and holding it in place.

7. If the magnifying power of an eyepiece is 10 \times and that of an objective is 45 \times , by how much is the specimen seen through this combination of lenses magnified? _____

8. What is the fundamental difference between a compound microscope and the simple microscope that van Leeuwenhoek used in the 1600s to describe living cells? _____

9. What major advantage does a transmission electron microscope have over a compound light microscope? What is its major disadvantage? _____

